



ISO 9001:2008/FAA Approved Facility

2-Port Passive L1L2 GPS / Iridium Antenna


P/N: 2GL1L2RxTxIR-PP-XSS-1 (SMA Connectors, White)
2.6" Dia., Back Mount, Bottom Connector Configuration




Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

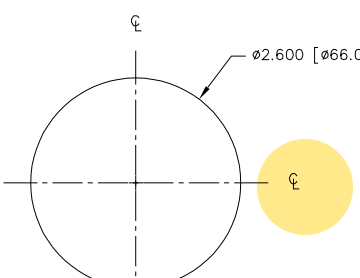
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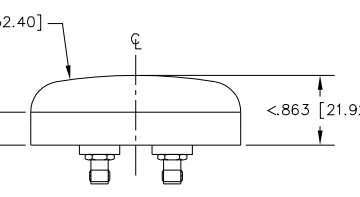


R6.000 [R152.40]



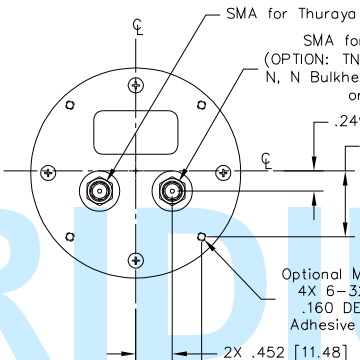


Ø2.600 [Ø66.04]



<.863 [21.92]

<.406 [10.31]



SMA for Thuraya (BLUE)
SMA for GPS (RED)
(OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

.249 [6.32]

.815 [20.70]

Optional Mounting:
4X 6-32 UNC
.160 DEEP & Adhesive Gasket

2X .452 [11.48]

4X .815 [20.70]

SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE		APPROVED
			REVISED	BY	
A		Thickness/Gain Table Correction	Apr-02-10	S.H	

ELECTRICAL:

FREQUENCY (MHz):	L1/L2 GPS		Rx L-BAND	Tx L-BAND	IRIDIUM
	L1: (1575.42 ±12)	L2: (1227.60 ±12)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1626)
ANTENNA GAIN (dBi):	3.5" Dia. GP	4 ft G.P.	3.5" Dia. GP	3.5" Dia. GP	3.5" Dia. GP
@ 90° (ZENITH):	+5.5	+4.5	+3.3	+4.9	+3.1
@ 10° Elevation:	-1.2	-1.4	-3.8	-3.6	-3.7
@ 20° Elevation:	+0.3	+1.4	-2.0	-0.1	-2.0
@ 30° Elevation:	+1.8	+2.2	-0.5	-1.8	-1.3
@ 60-90° Elevation:	>4.8	>3.8	>2.7	>3.0	>2.0
BEAM WIDTH (3dB):	106 Deg.	130 Deg.	106 Deg.	75 Deg.	106 Deg.
POLARIZATION:	RHCP		RHCP/LHCP		RHCP
RADIATION PATTERN:	HEMISPHERICAL				
VSWR:	< 1.5:1				
IMPEDANCE:	50 ohms				
AXIAL RATIO:	2 dB				
LIGHTNING PROTECTION:	DC GROUNDING				
POWER HANDLING:	200 Watts CW				
LNA OPTION:	33 dB Gain				
LNA NOISE FIGURE:	3.0 dB				
LNA P1dB Out:	+13 dBm				
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/-50mA				
REJECTION @ (-50/+50) MHz	-40 dB / -40 dB				
@ (-100/+100) MHz	< -65 dB				
POWER HANDLING:	100 Watts CW (WITHOUT LNA) , 1 Watt CW (WITH LNA)				

MECHANICAL:

SIZE: DIAMETER: 2.60 in.[66.04 mm]
HEIGHT: <0.863 in. [<22 mm]

WEIGHT: 4.9 oz. (139 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541F

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: SMA FEMALE
(OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		Thickness/Gain Table Correction	Apr-02-10	S.H

SIZE:	FREQ. BAND AND POLARIZATION:	LNA:
1: 2" SQ	RxTx: Rx/Tx-Thuraya; RxTxIR: Rx-Thuraya & Rx-Iridium/L1-GPS	A: WITH 33dB LNA
1.9: 1.9" SQ	L1RxTx: L1-GPS & Rx-Thuraya; L1RxTxIR: L1-GPS & Rx-Iridium	A2: WITH 22dB LNA
2: 2.6" DIA	L1RxTxTx: L1-GPS & RxTx-Thuraya; L1L2RxTxTx: L1/L2-GPS & RxTx-Thuraya	P: WITHOUT LNA
3: 3.5" DIA	L1RxTxIR: L1-GPS & RxTx-Iridium; L1L2RxTxIR: L1/L2-GPS & RxTx-Iridium	
4: MINI ARINC, 42; ARINC 743	RxTxTxRxTxIR: RxTx-Thuraya & RxTx-Iridium/Inmarsat	

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	REV
1	ADHESIVE GASKET	123456-3M-2G	-	1

P/N: 2GL1L2RxTxIR-PP-XSS-1

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE'S LENGTH:	Connector:	COLOR:
X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG; N: No Mag	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
IF: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37036 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .015 .010 ± 1°

TOLERANCE 5M PER ANSI Y14.5

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .005 TO .015

FILE TO .010 TO .020

SCREW THREADS PER UNF-5-8879

DAYS ON A COMPANY 2/000

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

2-Port L1L2 Passive GPS Iridium Antenna

DATE: 03/01/11

SCALE: 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas